NYE-DT 44



September 8, 2016

Apache Corporation

Lofty Prospects for Alpine High

Our view: Increased focus on organic onshore resource opportunities could enhance APA's growth and value accretion. It's still early but the Alpine High discovery appears to be a significant resource, albeit with a very high gas and NGL content.

Key points:

Stretching the Permian productive boundary. APA's "Alpine High" discovery targets the Barnett and Woodford formations in the southern Delaware (RBC map, page 3). Recent Delaware basin enthusiasm has targeted the oil prone Wolfcamp but APA's find appears to be a prolific high Btu gas play with 2,000-3,000+ potential drilling locations. We have observed APA's activity during the last 6-12 months in this region but with accounts of a deeper gas play, paid modest attention. Management has passionately drawn comparisons to the prolific and economic wet Marcellus, condensate Eagleford, and SCOOP plays. However, the Alpine High is viewed by the company as advantaged with better geology including lower clay content, higher porosity, and greater thickness.

Quietly accumulated scale; still early but encouraging. The company secured 307,000 net acres over the past 18 months at a cost of just \$1,300/acre, compared to recent industry acquisitions that have generally been \$20,000-40,000/acre. APA drilled 19 wells with 9 currently producing. The seven targeting the Woodford and Barnett have average 24-hour IP rates of 9 MMcfe/d (88% gas-2 stream). The gas has a high Btu content (1,300) with NGL extraction estimated at 135-140 bbl/Mcf. There were also wells drilled to the oilier Bone Spring (Third) and Wolfcamp that showed strong initial promise but the data and delineation is limited at this point.

Economics look exciting but requires confidence in NGL and natural gas prices. Management provided two typecurves, the over pressured Barnett/Woodford and normal pressured Woodford. The EURs are 1.1 MMboe and 2.7 MMboe with 10-12% oil, 25-30% NGLs, and 60-65% natural gas. Our model indicates a break-even IRR (15% pre-tax) at \$45/\$2 commodity prices but could be as low as mid \$30's/\$1 for the high EUR case at development costs.

Budget increased for Alpine including infrastructure needs. The company also increased 2016 capital spending by \$200 million to \$2 billion with over 25% earmarked to Alpine High. Approximately 40% of the Alpine spending is targeted to infrastructure. With the nigh liquids gas content we expect there will be a lot of processing needs in the region. Management plans to operate at least 4-5 rigs to the Alpine acreage into 2017.

We have increased our price target by \$2/share to \$62. Our new \$65 NAV now includes a bit over \$5/share for Alpine High but it could be worth \$10-15+/share over time if the play proves to be successful over a large portion of the acreage.

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Sector: Oil & Gas Exploration & Production

Sector Perform

NYSE: APA; USD 55.13

Price Target USD 62.00 ↑ 60.00

WHAT'S INSIDE	
☐ Rating/Risk Change	☑ Price Target Change
☐ In-Depth Report	☑ Est. Change
□ Preview	☐ News Analysis

Scenario Analysis*

4	Downside Scenario 45.00	Current Price	Price Target	Upside Scenario	
•	45.00	55.13	62 00	75.00	_
	↓17%		↑14%	† 38%	

*Implied Total Returns

Key Statistics

Shares O/S (MM):	379.4	Market Cap (MM):	20,918
Dividend:	1.00	Yield:	1.8%
Float (MM):	375.0	Tr. 12 ROE:	(5.40)%
Debt to Cap:	51%	Enterprise Val. (MM):	20,374
		Avg. Daily Volume:	2,910,248
		3-Yr. Est. EPS Growth:	NA

RBC Estimates

FY Dec	2015A	2016E	2017E	2018E
EPS, Ops Diluted	(0.27)	(1.01)	1.08	2.14
Prev.			1.06	2.04
P/E	NM	NM	51.0x	25.8x
CFPS Diluted	7.95	6.78	10.13	12.22
Prev.				12.01
P/CFPS	6.9x	8.1x	5.4x	4.5x
EPS, Ops Diluted	Q1	Q2	Q3	Q4
2015	(0.37)A	0.22A	(0.06)A	(0.06)A
2016	(0.83)A	(0.26)A	(0.00)E	0.08E
Prev.			0.00E	0.07E
2017	0.09E	0.22E	0.33E	0.44E
Prev.		0.21E		0.43E
CFPS Diluted				
2015	2.39A	1.38A	2.21A	1.98A
2016	1.25A	1.43A	2.01E	2.10E
Prev.				2.09E
2017	2.20E	2.41E	2.64E	2.88E
Prev.		2.40E	2.66E	2.87E
All values in USD unless of	therwise note	1		

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Priced as of prior trading day's market close, EST (unless otherwise noted).

For Required Conflicts Disclosures, see Page 6.



Oil & Gas Exploration & Production Apache Corp

Target/Upside/Downside Scenarios

Exhibit 1: Apache Corp



Source: Bloomberg and RBC Capital Markets estimates for Upside/Downside/Target

Target price/base case

Our \$62/share price target reflects a 5% discount to our NAV. This discount is in line with the large cap average and companies with strong balance sheets. Our base \$65/share NAV is a risked assessment of 3P reserves using the long-term RBC commodity price outlook of \$75/bbl & \$3.50/Mcf (long-term).

We haircut identified locations based on company/industry results, geology, and conservatism. This reduces drilling locations by 20-30% on average.

Upside scenario

Our \$75/share upside scenario assumes better well performance, more success in its multiple resource formations and exploratory acreage, and stronger near-term commodity prices than our base case forecast.

Downside scenario

Our \$45/share downside scenario reflects lower nearterm commodity prices and long-term commodity price assumptions.

Investment summary

We believe APA shares should perform in line to its peer group over the next 12 months. Our expectation is for a meaningful improvement in commodity prices through 2017. We expect APA shares to perform more in line the E&P peers in this environment. With a strong balance sheet and low decline asset base, the company is positioned well if lower prices persist and offer less downside risk, in our view.

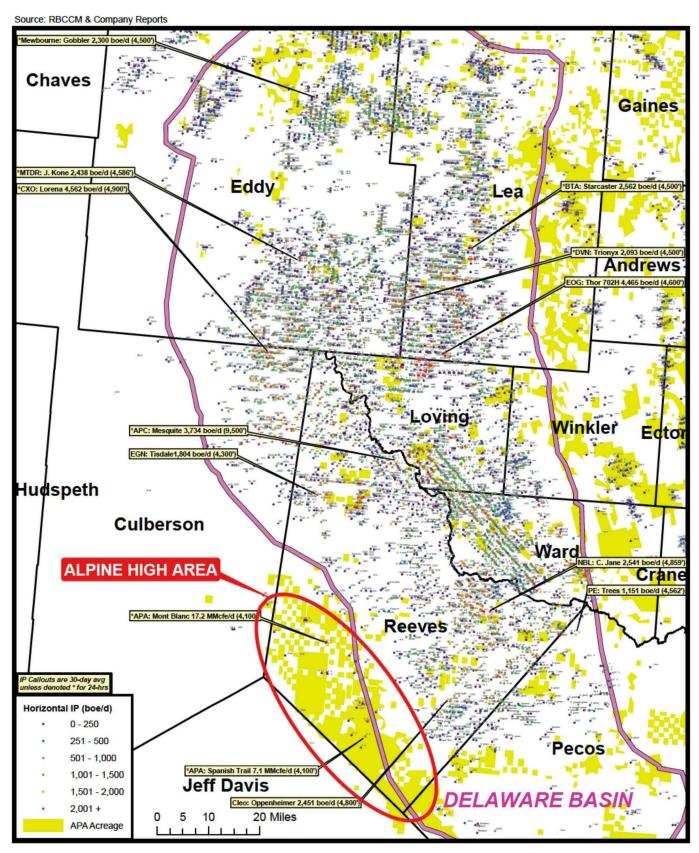
The company holds a large legacy position in the Permian that could develop into a more significant growth opportunity. Additionally, assets in both Egypt and the UK North Sea offer more conventional exposure with lower cash recycle requirement to maintain production levels.

Potential catalysts

- Permian Basin Development. The company has a vast acreage position across the Permian Basin, with encouraging results in the Midland and Delaware Basins. Strong results from future delineation activity could increase inventory and unlock value.
- Alpine High delineation. The new 307,000 net acre position in the southern Delaware holds the largest catalyst opportunity over the next couple of years, in our view. The market will be focused on individual well performance as initial development occurs.
- North Sea Discoveries. APA has a strong track record of UK North Sea exploration and development, with three recent discoveries announced in 2015. Success on future exploration could meaningfully increase ultimate resource potential and extend production.
- Offshore Suriname (Latin America). APA has established an offshore acreage position in Suriname with potentially significant exploration upside. In 2017, the company plans drill an exploration prospect on Block 53 and process 3D seismic on Block 58.
- Asset Monetizations. The company has successfully streamlined operations by divesting non-core assets over the last three years (\$6.2 billion in 2015 alone). We think further asset sales could be announced.



Oil & Gas Exploration & Production **Apache Corp**



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Valuation

Our \$62/share price target is based on a 5% discount to our estimated forward pre-tax NAV. This is in line with the large cap peer average and consistent to companies that have stronger balance sheets and activity focused in the Permian Basin. Our price target along with the NAV upside opportunity supports our Sector Perform rating.

Price target impediments

Risks to our price target and rating include the following:

- · Weaker-than-expected commodity prices could cause the stock to perform below our expectations and impede achievement of our price target objective.
- · Higher-than-expected commodity prices could cause the stock to perform above our expectations and impede achievement of our price target objective.
- · Future growth and value will likely be predicated on the continued success of Permian, UK North Sea, and Egypt development opportunities. If well performance does not meet expectations, this could cause APA shares to underperform the company's peers.
- Geopolitical risks associated with international operations could potentially have a negative impact on operations and impede achievement of our price target objective.

Company description

Apache Corporation (NYSE: APA) is an independent E&P company engaged in acquisition, exploitation, and production activities. Properties are located in the Permian Basin (West Texas), Eagleford Shale (South Texas), Mid-Continent (Oklahoma & Texas Panhandle), US Gulf of Mexico, Canada, UK North Sea, Egypt, and Suriname (Latin America). Corporate headquarters are in Houston, Texas.



Oil & Gas Exploration & Production **Apache Corp**

	2016 Quarterly Results				Scott Hanold, CPA scott.hanold@rbccm.com (512) 708-635 2017 Quarterly Results Annual Results							
PRICING & PRODUCTION	1Q16	2Q16	3Q16e	4Q16e	1Q17e	2Q17e	3Q17e	4Q17e	2015	2016e	2017e	2018e
Natural Gas Benchmark (HH; \$/Mcf)	\$1.98	\$2.11	\$2.75	\$2.75	\$2.75	\$3.00	\$3 00	\$3.25	\$2 60	\$2.40	\$3.00	\$3 25
Crude Oil Benchmark (WTI; \$/bbl)	\$33.51	\$45.44	\$50.46	\$52.14	\$54.35	\$57.79	\$60 30	\$62.13	\$48.75	\$45.42	\$58.67	\$65 00
Production Volumes (Unadjusted)												
Natural Gas (MMcf/d)	1,145	1,123	1,100	1,071	1,057	1,060	1,093	1,128	1,131	1,109	1,085	1,161
NGLs (Mbbl/d)	65	63	60	59	58	59	62	65	62	62	61	68
Crude Oil & Condensate (Mbbl/d)	286	285	271	267	265	266	274	281	284	277	272	286
Total Production (Mboe/d) Sequential Change	541 10%	535 -1%	515 -4%	504 -2%	499 -1%	503 1%	518 3%	534 3%	535 -17%	524 -2%	514 -2%	548 79
% Natural Gas	35%	35%	36%	35%	35%	35%	35%	35%	35%	35%	35%	359
% NGLs	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%	12%	129
% Crude Oil & Condensate	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	529
Commodity Price Realizations				40.70	***		****	***	***		***	
Natural Gas (\$/Mcf)	\$2.14	\$2 04	\$2.64	\$2.73	\$2.82	\$2.93	\$2 95	\$3.09	\$2 86	\$2.38	\$2.95	\$3.12
NGLs (\$/bbl) Crude Oil & Condensate (\$/bbl)	\$7.16 \$31.62	\$10 22 \$43.14	\$11.26 \$48.02	\$14.00 \$49.91	\$15.48 \$52.84	\$15.13 \$56.00	\$16 36 \$58 23	\$19.62 \$59.85	\$9 97 \$48 09	\$10.58 \$43.03	\$16.73 \$56.81	\$19.73 \$62.70
Crude Oil & Coridersale (WDDI)	\$31.02	φ43.14	⊉40.U 2	Ф49.91	\$32.04	\$30.00	φ00 Z3	\$39.05	\$40.09	\$45.05	\$30.61	Φ02.70
EARNINGS & CASH FLOW	1Q16	2Q16	3Q16e	4Q16e	1Q17e	2Q17e	3Q17e	4Q17e	2015	2016e	2017e	2018e
Oil & Gas Revenues (net)	\$1,084	\$1,363	\$1,517	\$1,557	\$1,598	\$1,711	\$1,845	\$1,976	\$6,540	\$5,521	\$7,130	\$8,322
Operating Costs & Production Taxes	\$441	\$476	\$561	\$566	\$561	\$578	\$608	\$633	\$2,376	\$2,044	\$2,381	\$2,601
Exploration Expense	95	91	50	50	75	75	75	75	0	286	300	340
Depletion, Depreciation, & Amortization	716	707	701	689	694	706	733	766	4,113	2,813	2,899	3,122
General & Administrative	93 (\$261)	103 (\$14)	\$124	\$171	\$183	\$266	\$340	92 \$410	(\$323)	358 \$20	352 \$1,199	396
Net Operating Income							1700000		***********			\$1,863
Interest Expense	\$104	\$102	\$105	\$105	\$105	\$105	\$105	\$105	\$224	\$416	\$421	\$397
Marketing, Midstream & Other	0	0	0	0	0	0	0	0	0	0	0	0
Pref Div / Minority / Equity Affiliates Non-Recurring Items	1 17	44 165	13 0	14	15 0	17 0	21	23	(409)	72 182	76 0	107
Income Tax Expense	(11)	(81)	6	23	29	60	88	114	28,274 (5,293)	(63)	292	550
Reported Net Income	(\$372)	(\$244)	(\$0)	\$29	\$34	\$83	\$126	\$167	(\$23,119)	(\$587)	\$410	\$809
Adjusted Net Income	(\$314)	(\$99)	(\$0)	\$29	\$34	\$83	\$126	\$167	(\$102)	(\$384)	\$410	\$809
Reported EPS	(\$0.98)	(\$0 64)	(\$0.00)	\$0.08	\$0.09	\$0.22	\$0.33	\$0.44	(\$61 20)	(\$1.55)	\$1.08	\$2.14
Adjusted EPS	(\$0.83)	(\$0.26)	(\$0.00)	\$0.08	\$0.09	\$0.22	\$0.33	\$0.44	(\$0.27)	(\$1.01)	\$1.08	\$2.14
DCFPS	\$1.25	\$1.43	\$2.01	\$2.10	\$2.20	\$2.41	\$2.64	\$2.88	\$7.95	\$6.78	\$10.13	\$12.22
EBITDAX	\$552	\$787	\$945	\$981	\$1,026	\$1,123	\$1,227	\$1,333	\$3,896	\$3,266	\$4,709	\$5,681
Diluted Shares Outstanding	378	379	379	379	379	379	379	379	378	379	379	379
OPERATING MARGINS (\$/BOE)	1Q16	2Q16	3Q16e	4Q16e	1Q17e	2Q17e	3Q17e	4Q17e	2015	2016e	2017e	2018e
Pre-Hedge Revenue	\$22.07	\$28.45	\$32.26	\$33.84	\$35.79	\$37.66	\$38 95	\$40.44	\$32.75	\$29.06	\$38.27	\$41 83
Net (Loss) / Gain on Hedges	0.00	0 00	0.00	0.00	0.00	0.00	0 00	0.00	0 00	0.00	0.00	0 00
Cash Operating Costs	(8.95)	(9.77)	(11.85)	(12.22)	(12.49)	(12.64)	(12.77)	(12.88)	(12.17)	(10.67)	(12.70)	(13 01
General & Administrative	(1.89)	(2.11)	(1.69)	(1.76)	(1.87)	(1.89)	(1 87)	(1.87)	(1 91)	(1.87)	(1.88)	(1 98
Gross Margin	\$11.22	\$16.57	\$18.72	\$19.87	\$21.43	\$23.12	\$24.31	\$25.69	\$18.67	\$16.52	\$23.69	\$26.84
Non-Cash DD&A Operating Margin	(14.54) (\$3.31)	(14 51) \$2.06	(14.81) \$3.91	\$5.00	(15.45) \$5.99	(15.44) \$7.69	(15 38) \$8.93	(15.59) \$10.10	(21 06) (\$2.39)	(14.68) \$1.85	(15.46) \$8.23	(15 61 \$11.23
FREE CASH FLOW & LEVERAGE	1Q16	2Q16	3Q16e	4Q16e	1Q17e	2Q17e	3Q17e	4Q17e	2015	2016e	2017e	2018e
Free Cash Flow	1410	2010	34100	44100	19110	20110	34110	44110	2013	20100	20110	20100
Discretionary Cash Flow	\$471	\$542	\$760	\$794	\$836	\$913	\$1,002	\$1,090	\$3,004	\$2,568	\$3,841	\$4,631
Exploration & Development CAPEX	438	505	483	538	627	768	888	962	3,577	1,964	3,244	4,347
Free Cash Flow	\$33	\$37	\$278	\$256	\$209	\$146	\$114	\$129	(\$573)	\$604	\$597	\$284
Drilling CAPEX / Cash Flow Ratio	0.9x	0.9x	0.6x	0.7x	0.8x	0.8x	0.9x	0.9x	1.2x	0.8x	0.8x	0.9x
Leverage	£4.004	¢1 204	£4 224	¢1 EDE	\$4 GA7	¢1 622	¢4 EE4	\$1.406	¢4 467	C1 FOE	C1 406	6405
Cash & Equivalents Total Debt	\$1,004 8,719	\$1,201 8,720	\$1,334 8,720	\$1,595 8,720	\$1,647 8,720	\$1,623 8,720	\$1,554 8,720	\$1,496 8,720	\$1,467 8,778	\$1,595 8,720	\$1,496 8,720	\$435 8,170
Net Debt	\$7,715	\$7,519	\$7,386	\$7,125	\$7,073	\$7,097	\$7,166	\$7,224	\$7,311	\$7,125	\$7,224	\$7,735
Net Debt / EBITDA (ttm)	2.3x	2.5x	2.4x	2.2x	1 9x	1.7x	1.6x	1 5x	1.9x	2 2x	1.5x	1.4x
EBITDA / Interest Expense	5.4x	6.2x	8 9x	9.2x	9.7x	10.4x	11.3x	12.1x	23.0x	7.4x	10.9x	13.5x
Net Debt / Book Capital	49.5%	50 5%	50.4%	50.2%	50.2%	50.3%	50.4%	50.3%	73 6%	50.2%	50.3%	50 39
<u> </u>	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Credit Facility (Size) Bank Commitments	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Credit Facility (Size) Bank Commitments Amount Drawn Net Credit Facility Availability												

Source: RBC Capital Markets Estimates & Company Reports

Financial Values in US \$MM's



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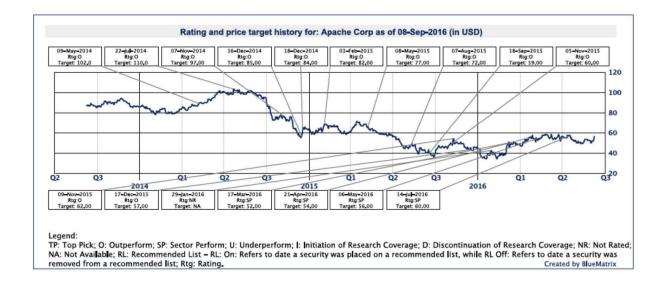


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	Distribution	of ratings		
	RBC Capital Market	s, Equity Research		
	As of 30-J	lun-2016		
			Investment Bank	ing
			Serv./Past 12 Me	os.
Rating	Count	Percent	Count	Percent
BUY [Top Pick & Outperform]	878	50.51	246	28.02
HOLD [Sector Perform]	741	42.64	129	17.41
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